

# SYSTEM AND METHOD FOR A FLAMELESS TRACER/MARKER UTILIZING HEAT MARKING CHEMICALS

## Abstract

A flameless tracer/marker provides heat mark chemicals with optional chemilucent chemicals that can be carried and delivered by a projectile to mark a target. This marking payload may be carried by small, medium and large caliber projectiles that are part of ammunition items including 20 and 40mm grenade launched, 90mm, 105 and 120mm tank, 60, 81 and 120mm mortar and 105 and 155 artillery ammunition. This ammunition is gun launched and the projectiles can provide a heat trace to the target and/or upon impact with the target the projectile breaks or shatters and leaves a heat signature on the target for up to several hours. Included with these heat chemicals may be optional chemilucent. This heat mark may be placed into a lethal and non-lethal projectile. This allows heavy and light armor targets, vehicles, buildings and personnel to be marked without extensive damage to the target and without seriously injuring a person. The target may now be heat marked and chemiluminescent marked.